

Claims 40-47
10/714,580

RESPONSE TO RESTRICTION REQUIREMENT

Serial No.: 10/714,580

Filed: November 14, 2003

Title: ANTIMICROBIAL ACTIVITY OF ANTIBODIES

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Salmonella typhi, Salmonella typhimurium, Escherichia coli, Escherichia coli O157:H7, Shigella dysenteriae, Pseudomonas aeruginosa, Pseudomonas cepacia, Vibrio cholerae, Helicobacter pylori, a multiply-resistant strain of Staphylococcus aureus, a vancomycin-resistant strain of Enterococcus faecium, or a vancomycin-resistant strain of Enterococcus faecalis.

33. (Original) The method of claim 21, wherein the microbe is Escherichia spp., Pseudomonas spp., or Salmonella spp.

34. (Original) The method of claim 21, wherein the microbe is Escherichia coli, Salmonella typhimurium, or Pseudomonas aeruginosa.

35. (Original) The method of claim 21, wherein the microbe is a virus.

36. (Original) The method of claim 35, wherein the virus is a DNA virus.

37. (Original) The method of claim 35, wherein the virus is a RNA virus.

38. (Original) The method of claim 35, wherein the virus is a viroid or a prion.

39. (Original) The method of claim 35, wherein the virus is a hepatitis A virus, hepatitis B virus, hepatitis C virus, human immunodeficiency virus, poxvirus, herpes virus, adenovirus, papovavirus, parvovirus, reovirus, orbivirus, picornavirus, rotavirus, alphavirus, rubivirus, influenza virus type A, influenza virus type B, flavivirus, coronavirus, paramyxovirus, morbillivirus, pneumovirus, rhabdovirus, lyssavirus, orthomyxovirus, bunyavirus, phlebovirus, nairovirus, hepadnavirus, arenavirus, retrovirus, enterovirus, rhinovirus or filovirus.

40. (Currently Amended) A method of generating a reactive oxygen species to inhibit the growth of a microbe comprising contacting the microbe with (i) an antibody that can bind to the microbe and (ii) a source of singlet oxygen ($^1\text{O}_2$).

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41. (Original) The method of claim 40, wherein the source of singlet oxygen ($^1\text{O}_2$) is a sensitizer molecule.

42. (Original) The method of claim 41, wherein the sensitizer molecule is a pterin, a flavin, a hematoporphyrin, a tetrakis(4-sulfonatophenyl)porphyrin, a bipyridyl ruthenium(II) complex, a rose Bengal dye, a quinone, a rhodamine dye, a phthalocyanine, a hypocrellin, rubrocyanin, pinacyanol, allocyanin or a chlorin.

43. (Original) The method of claim 41, wherein the sensitizer molecule is attached to the antibody.

44. (Original) The method of claim 40, wherein the antibody is a human or a humanized antibody.

45. (Original) The method of claim 40, wherein the antibody is a Fab, Fab', F(ab')₂, Fv or sFv fragment.

46. (Original) The method of claim 40, wherein the reactive oxygen species is a superoxide radical, hydroxyl radical or hydrogen peroxide.

47. (Original) The method of claim 40, wherein the reactive oxygen species is ozone.